

Lytecel Recessed Fluorescent **LCS6G20LW154**

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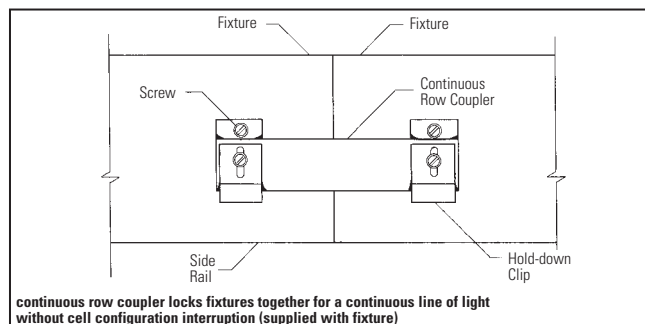
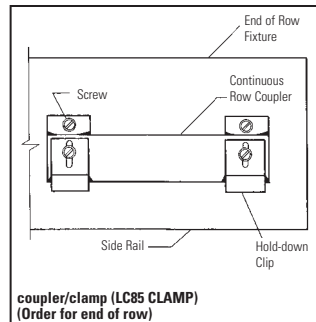
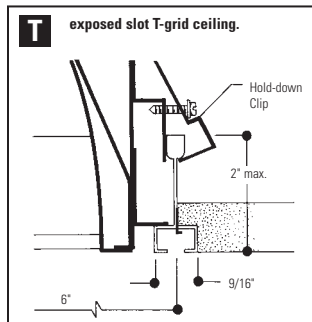
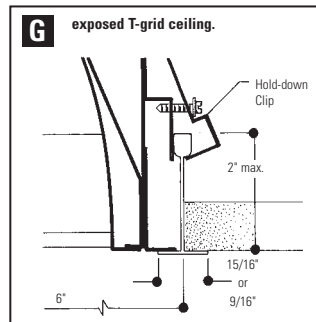
For Continuous Row Mounting, 6" Wide x 48", 20 Cell (1 Row) Parabolic Louver, Air Return/Static, 1 Lamp T5, IES RP1 For VDT Areas

Features

- 48" long louver gives an uninterrupted louver appearance when row mounted. Ideal for continuous row applications.
- 54.9% efficient (1 lamp) semi-specular louver.
- 58.2% efficient (1 lamp) specular louver.
- 1.6 spacing mounting ratio.
- Semi-specular or specular, low iridescence, pre-anodized aluminum louver.
- Vertical grain on cross blades eliminates reflected lamp image.
- Spring loaded latches (self centering).
- Louver has protective dust guard.
- Only 5-1/2" deep body.
- Black housing exterior for cooler ballast operating temperature.
- UL-Listed twin knockout access plate.
- Meets NYC Code requirements.
- Construction to meet Chicago Plenum Code is available.
- Optional DALI ballast accepts digital dimming commands from computers, scene controllers and automatic control devices.



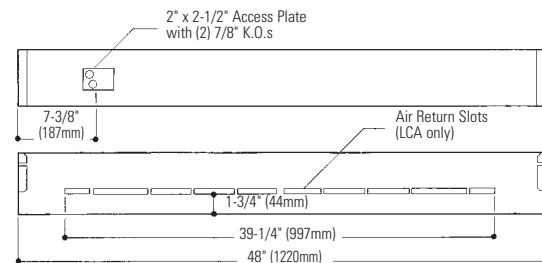
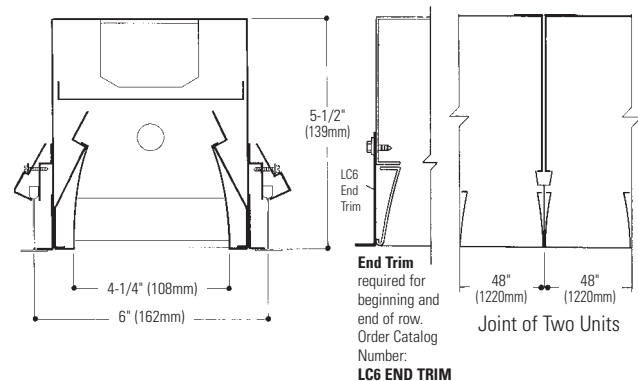
Mounting Methods



NOTE:

If product is to be mounted individually, use LI series, Folio G07-38.

Dimensions



Job Information

Type:

Job Name:

Cat. No.:

Lamp(s):

Volts/Ballast:

Lightolier a Genlyte company

www.lightolier.com

Technical Information: (978) 657-7600 • Fax (978) 658-0595

631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710

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Section 2/Folio G07-44



Lytecel Recessed Fluorescent **LCS6G20LW154**

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For Continuous Row Mounting, 6" wide x 48", 20 Cell (1 Row) Parabolic Louver, Air Return/Static, 1 Lamp T5, IES RP1 For VDT Areas

Model No. LCS6G20LW154120PG

LER = FP - 40.3 IW - 59.0 BF - 1.0
Comparative yearly lighting energy cost per
1000 lumens = \$5.95
Report Number: G1206004
Catalog Number: LCS6G20LW154120PG
Lamp: F54 T5HO
Luminaire: 6" wide Troffer with semi-specular louver.
Ballast: Advance ICN-2S54
Report is based on 4400 Lumens per lamp.
Efficiency: 54.9%
CIE Type-Direct-Indirect
Plane: 0-Deg 90-Deg
Spacing Criteria: 1.2 1.6
Shielding Angles: 90 90
Plane: 0-Deg 90-Deg
Luminous Length: 47.943 5.816

CANDELA DISTRIBUTION

	0.0	45.0	90.0	FLUX
0	1040	1040	1040	
5	1059	1075	1113	102
15	978	1069	1124	302
25	900	1081	1412	514
35	792	1193	1432	711
45	630	856	443	523
55	372	220	110	227
65	20	30	21	29
75	3	4	6	5
85	1	1	2	2
90	0	1	1	

COEFFICIENTS OF UTILIZATION – ZONAL CAVITY METHOD. EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	70	80	50	30	10	50	30	10
1	61	60	58	56	55	54	54	53
2	57	54	51	51	49	47	49	48
3	53	49	45	47	44	42	45	43
4	50	44	40	42	39	37	41	38
5	46	40	36	39	35	33	38	35
6	43	37	32	35	32	29	34	31
7	40	33	29	32	29	26	32	28
8	37	31	27	30	26	24	29	26
9	35	28	24	27	24	21	27	24
10	33	26	22	25	22	19	25	22

TYPICAL V.C.P.'s

Room Size	Mounting Height					
	Lengthwise			Crosswise		
	Luminaires 0 Deg Plane		Luminaires 90 Deg Plane	Luminaires 0 Deg Plane		Luminaires 90 Deg Plane
	8.5	10	8.5	10	8.5	10
30x30	89	85	84	76	96	93
40x40	89	86	85	81	96	93
60x30	80	86	85	79	96	93
60x60	89	86	84	81	96	94
100x100	89	86	84	82	96	95

LUMINANCE DATA IN CANDELA/SQ. METER

AVERAGE IN DEG.	AVERAGE 0-DEG.	AVERAGE 45-DEG.	AVERAGE 90-DEG.
45	4954.	6726.	3485.
55	3605.	2128.	1068.
65	264.	401.	278.
75	63.	84.	135.
85	41.	69.	124.

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0- 30	918	20.9	38.0
0- 40	1629	37.0	67.5
0- 60	2379	54.1	98.5
0- 90	2414	54.9	100.0
90-180	0	0.0	0.0
0-180	2414	54.9	100.0

Model No. LCS6G20PW154120PG

LER = FP - 43.4 IW - 59.0 BF - 1.0
Comparative yearly lighting energy cost per
1000 lumens = \$5.53
Report Number: G1206005
Catalog Number: LCS6G20PW154120PG
Lamps: F54 T5HO
Luminaire: 6" wide Troffer with specular louver.
Ballast: Advance ICN-2S54
Report is based on 4400 Lumens per lamp.
Efficiency: 58.2%
CIE Type-Direct-Indirect
Plane: 0-Deg 90-Deg
Spacing Criteria: 1.2 1.6
Shielding Angles: 90 90
Plane: 0-Deg 90-Deg
Luminous Length: 47.943 5.816

CANDELA DISTRIBUTION

	0.0	45.0	90.0	FLUX
0	1052	1052	1052	
5	1082	1101	1094	103
15	1029	1102	1130	306
25	927	1090	1491	532
35	829	1350	1617	782
45	668	965	431	568
55	446	217	95	244
65	1	30	18	20
75	1	3	7	4
85	1	2	3	2
90	0	1	1	

COEFFICIENTS OF UTILIZATION – ZONAL CAVITY METHOD. EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	70	80	50	30	10	50	30	10
1	65	63	61	60	58	57	57	56
2	61	57	54	54	52	50	52	51
3	57	52	48	49	46	44	48	45
4	53	47	43	45	41	39	44	41
5	49	43	38	41	37	34	40	37
6	45	39	34	37	34	31	36	33
7	42	35	31	34	30	28	33	30
8	39	32	28	31	28	25	31	27
9	37	30	25	29	25	22	28	25
10	35	28	23	27	23	20	26	23

TYPICAL V.C.P.'s

Room Size	Mounting Height					
	Lengthwise			Crosswise		
	Luminaires 0 Deg Plane		Luminaires 90 Deg Plane	Luminaires 0 Deg Plane		Luminaires 90 Deg Plane
	8.5	10	8.5	10	8.5	10
30x30	87	76	78	75	96	93
40x40	87	76	78	79	97	93
60x30	87	76	78	79	96	93
60x60	88	77	79	79	96	94
100x100	88	77	79	79	95	94

LUMINANCE DATA IN CANDELA/SQ. METER

AVERAGE IN DEG.	AVERAGE 0-DEG.	AVERAGE 45-DEG.	AVERAGE 90-DEG.
45	5251.	7583.	3387.
55	4318.	2106.	923.
65	10.	397.	242.
75	14.	75.	159.
85	45.	103.	192.

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0- 30	942	21.4	36.8
0- 40	1724	39.2	67.3
0- 60	2536	57.6	99.0
0- 90	2563	58.2	100.0
90-180	0	0.0	0.0
0-180	2942	51.6	100.0

Ordering Information

Explanation of Catalog Number. Example: LCS6G20LW154120PG

LC	LN	6	20	W	1				
LC: Lytecel 6" Continuous Louver Appearance	LN: For NYC Code – Local 3 Manufactured	Body Style: A=Air Return S=Static	Ceiling Type: G=9/16" or 15/16" Grid T=Slot Grid	Louver Finish: L=Low Iridescence Semi-specular P=Low Iridescence Specular	Lamp Quantity: (By others) 1=1 Lamp	Lamp Fixture Length: 28=T5 54=T5HO (Nominal 48")	Voltage: 120, 277 or UNV=120-277	Ballast Type: <20THD <10THD	Options: Add appropriate suffix to catalog no, ie: (GLR)

Options/Accessories

Access Plate: Top Wiring access plate is shipped with fixture as standard. When access plates are required in advance for wiring convenience, specify separately. Order Catalog Number: **ACP5 CSP**.

Coupler/Clamp: (Set of 2) Required for beginning of rows. Order Catalog Number: **LC85 CLAMP** (for G or T type)

End Trim: Required at beginning and end of rows. For every row order (2). Order Catalog Number: **LC6 END TRIM**.

Electrical/Wiring Options: Consult factory.

EM Pack or Dimming Ballast: Consult factory.

Fusing: Internal fast-blow fusing. Suffix: **GLR**.
Internal slow-blow fusing. Suffix: **GMF**.

Chicago Plenum: Suffix: **CP**.

Specifications

Performance: In an installation of 1 lamp 54W semi-specular luminaires in a room cavity ratio of 1, reflectance 80% ceiling, 50% wall, 20% floor, the C.U. shall not be less than .60 with a spacing to mounting ratio of 1.6 perpendicular to the lamps. To meet IES RP-1 for VDT areas the VCP (visual comfort probability) shall not be less than 89 either crosswise or lengthwise and the candela value between 55° and 90° in the 0° to 90° planes shall not exceed 3605. Candelas at Nadir (0°) not to exceed 1040.

Specifications (continued)

Air Handling—(LCA only) Side air passages for air return.

Materials: Chassis parts are die-formed cold rolled steel.

Louver: Pre-anodized aluminum (Coilzak® or equal).

Finish: Louver—specular or semi-specular low iridescence pre-anodized reflector sheet. **Reflector:** White baked polyester enamel. **Chassis exterior**—black baked polyester enamel.

Electrical: Thermally protected class "P" ballast C.B.M. approved, non PCB. If K.O. is within 3" of ballast, use wire suitable for at least 90°.

Labels: I.B.E.W./UL and ULc Listed.

This product may have a mercury containing lamp. Manage in accord with Disposal Laws. See: www.lamprecycle.org

Job Information

Type:

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